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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO
09/499,207	02/07/2000	Jose Oriol Guixa Arderiu	2136/0G684	9917
7590 01/06/2004			EXAMINER	
Darby & Darby PC			IP, SIKYIN	
805 Third Avenue New York, NY 10022			ART UNIT	PAPER NUMBER
·			1742	
			DATE MAILED: 01/06/2004	4

Please find below and/or attached an Office communication concerning this application or proceeding.

•	Application No.	Applicant(s)				
Office Action Summany	09/499,207	GUIXA ARDERIU ET AL.				
Office Action Summary	Examiner	Art Unit				
	Sikyin Ip	1742				
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orrespondence address				
A SHORTENED STATUTORY PERIOD FOR REPLY THE MAILING DATE OF THIS COMMUNICATION.  - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication.  - If the period for reply specified above is less than thirty (30) days, a reply if NO period for reply is specified above, the maximum statutory period we Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).  Status	6(a). In no event, however, may a reply be tim within the statutory minimum of thirty (30) days ill apply and will expire SIX (6) MONTHS from to cause the application to become ABANDONEI	nely filed s wilf be considered timely. the mailing date of this communication. C (35 U.S.C. § 133).				
1) Responsive to communication(s) filed on 03 Oc	<u>ctober 2003</u> .					
2a)⊠ This action is <b>FINAL</b> . 2b)□ This a	action is non-final.					
3) Since this application is in condition for allowan closed in accordance with the practice under Ex	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.					
Disposition of Claims						
4) ☐ Claim(s) 5,7-12,14-15,17-19,21 and 22 is/are per 4a) Of the above claim(s) is/are withdraw 5) ☐ Claim(s) 19,21 and 22 is/are allowed.  6) ☐ Claim(s) 5,7-12,14,15,17 and 18 is/are rejected 7) ☐ Claim(s) is/are objected to.  8) ☐ Claim(s) are subject to restriction and/or	n from consideration.					
Application Papers						
9)☐ The specification is objected to by the Examiner						
10) The drawing(s) filed on is/are: a) □ acce	pted or b) $\square$ objected to by the E	xaminer.				
Applicant may not request that any objection to the d	rawing(s) be held in abeyance. See	37 CFR 1.85(a).				
Replacement drawing sheet(s) including the correction						
11) The oath or declaration is objected to by the Exa	aminer. Note the attached Office	Action or form PTO-152.				
Priority under 35 U.S.C. §§ 119 and 120						
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of:  1. Certified copies of the priority documents  2. Certified copies of the priority documents  3. Copies of the certified copies of the priority application from the International Bureau  * See the attached detailed Office action for a list of the since a specific reference was included in the first since a specific reference was included in the first since a specific reference was included in the first since a specific reference was included in the first sentence of the series.	have been received. have been received in Application by documents have been received (PCT Rule 17.2(a)). If the certified copies not received priority under 35 U.S.C. § 119(e) sentence of the specification or initial application has been received priority under 35 U.S.C. §§ 120 a	on No  d in this National Stage  d. ) (to a provisional application) in an Application Data Sheet.  eived. and/or 121 since a specific				
Attachment(s)						
Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948) Information Disclosure Statement(s) (PTO-1449) Paper No(s)	5) Notice of Informal Pa	PTO-413) Paper No(s) tent Application (PTO-152)				
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#### **DETAILED ACTION**

## Claim Rejections - 35 USC § 103

- 1. The factual inquiries set forth in *Graham* v. *John Deere Co.*, 383 U.S. 1, 148 USPQ 459 (1966), that are applied for establishing a background for determining obviousness under 35 U.S.C. 103(a) are summarized as follows:
  - 1. Determining the scope and contents of the prior art.
  - 2. Ascertaining the differences between the prior art and the claims at issue.
  - 3. Resolving the level of ordinary skill in the pertinent art.
  - 4. Considering objective evidence present in the application indicating obviousness or nonobviousness.
- 2. This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(f) or (g) prior art under 35 U.S.C. 103(a).
- 3. Claims 5, 7-11, 15, and 17-18 are rejected under 35 U.S.C. § 103 as being unpatentable over JP 62133050.
- 4. The cited reference(s) disclose(s) the features including the claimed Cu-Pb alloy composition and casting and heating. The features relied upon described above can be found in the reference(s) at abstract. Difference in degree of purity itself does not predicate patentability. In re King, 43 USPQ 400 and In re Merz, 38 USPQ 143. Changing form, purity, or other characteristic of an old product does not render

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the novel form patentable where the difference in form, purity or characteristic was inherent in or rendered obvious by the prior art. In re Cofer, 354 F2d 664, 148 USPQ 268 (CCPA 1966). An obviousness rejection based on similarity in chemical structure and function entails the motivation of one skilled in the art to make a claimed compound, in the expectation that compounds similar in structure will have similar properties. In re Gyurik, 596 F.2d 1012, 1018, 201 USPQ 552, 557 (CCPA) 1979); See In re May, 574 F.2d 1082, 1094, 197 USPQ 601, 611 (CCPA 1978) and In re Hoch, 57 CCPA 1292, 1296, 428 F.2d 1341, 1344, 166 USPQ 406, 409 (1970). When prior art compounds essentially "bracketing" the claimed compounds in structural similarity are all known, one of ordinary skill in the art would clearly be motivated to make those claimed compounds in searching for new products. Therefore, the subject matter as a whole would have been obvious to one having ordinary skill in the art at the time the invention was made to have selected the overlapping portion of the subject matter disclosed by the reference. Overlapping ranges have been held to be a prima facie case of obviousness. See In re Malagari, 499 F.2d 1297, 1303, 182 USPQ 549, 553 (CCPA 1974).

- 5. Claims 12 and 14 are rejected under 35 U.S.C. 103(a) as being unpatentable over JP 62133050 as applied to claims above, and further in view of acknowledged prior art admission in paragraph bridging pages 5-6 of the instant specification.
- 6. The claimed subject matter as is disclosed and rejected above by the cited reference(s)

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but does not disclose the claimed properties such as hydrogen reduction and electrical conductivity because of heating. But, the acknowledged prior art admission discloses that it is known heating at 550-650 °C for over an hour would have the effect as claimed. Therefore, it is contemplated within ambit of skill artisan to recognize the cited Japanese reference would also have the claimed properties after heat treatment.

### Allowable Subject Matter

- 7. Claims 19, 21, and 22 are allowed.
- 8. The following is an examiner's statement of reasons for allowance: The transitional expression "consisting of" in claim 19 has excluded the additional elements from cited reference.

#### Response to Arguments

- 9. Applicant's arguments and declaration filed October 3, 2002 and declaration filed April 16, 203 have been fully considered but they are not persuasive.
- 10. The Pb-Cu phase diagram and SEM micrograph fail to show the claimed Pb content is critical. Furthermore, the Ag content (121.9 to 141 ppm) in the Dr. Espiell's declaration is found inconsistent with the claimed Ag content in the order of tens of weight ppm.
- 11. The instant declaration fails to show the claimed lead content is critical because, for example, the Sn content of sample 3 is much lower than samples 1 and 2. Comparison must be done under identical condition except for the novel features of the invention. In re Brown,

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173 USPQ 685 and In re Chapman, 148 USPQ 711. The showing of unexpected results must be occurred over the entire claimed range. In re Clemens, 622 F.2d 1029, 206 USPQ 289, 296 (CCPA 1980). The scope of the showing must be commensurate with the scope of the claims. In re Tiffin, 448 F.2d 791, 792 (Fed. Cir. 1971), In re Coleman, 205 USPQ 1172, In re Grasselli, 713 F.2d 731, 743, 218 USPQ 769, 778 (Fed. Cir. 1983), and In re Greenfield, 197 USPQ 227.

- 12. Applicants' argument in page 3, second full paragraph of remarks filed on March 21, 2003 is noted. But, instant claimed elements all have open ended ranges. The newly cited JP 62133050 has all the claimed elements.
- 13. Applicants argue that the Sn content in the JP '050 is more than order of tens of weight ppm. But, the claimed "order of tens of weight ppm" is found inconsistent with the Ag content in the declaration filed by Dr. Espiell in April 2003.
- 14. Applicants' argument as set forth in instant remarks, page 3, item 1, third full paragraph and paragraphs 8-9 of the declaration are noted. But, the instant transitional expressions in the rejected claims do not exclude Ti and there is no evidence that the claimed Cu content meets ASTM standards B224-98 and B49-98 with said transitional expressions.

#### Conclusion

15. **THIS ACTION IS MADE FINAL**. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee

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pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

16. The above rejection relies on the reference(s) for all the teachings expressed in the text(s) of the references and/or one of ordinary skill in the metallurgical art would have reasonably understood or implied from the text(s) of the reference(s). To emphasize certain aspect(s) of the prior art, only specific portion(s) of the text(s) have been pointed out. Each reference as a whole should be reviewed in responding to the rejection, since other sections of the same reference and/or various combination of the cited references may be relied on in future rejection(s) in view of amendment(s).

All recited limitations in the instant claims have been meet by the rejections as set forth above.

Applicant is reminded that when amendment and/or revision is required, applicant should therefore specifically point out the support for any amendments made to the disclosure. See MPEP § 2163.06 (a) and 37 C.F.R. § 1.119.

# Examiner Correspondence

Any inquiry concerning this communication or earlier communications from the examiner should be directed to S. Ip whose telephone number is (571) 272-1242. The examiner can normally be reached on Monday to Friday from 5:30 A.M. to 2:00 P.M.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Dr. Roy V. King, can be reached on (571)-272-1244.

The facsimile phone number for this Art Unit 1742 are (703) 305-3601 (Official Paper only). When filing a FAX in Technology Center 1700, please indicate in the Header (upper right) "Official" for papers that are to be entered into the file, and "Unofficial" for draft documents and other communication with the PTO that are not for entry into the file of the application. This will expedite processing of your papers.

Any inquiry of a general nature or relating to the status of this application should be directed to the Group receptionist whose telephone number is (703) 308-0651.

2 12/24/03

SIKYIN IP PRIMARY EXAMINER ART UNIT 1742